

A1

determining whether register data corresponding to a selected thread has changed from a previous interrupt; and
providing an indication of the change for the selected thread.

A2

5053

8. (Amended) A method for time profiling multiple threads of execution corresponding to a program, comprising:
suspending execution of the program;
determining whether information corresponding to processor registers for each thread indicates that the thread is running by comparing the information to stored information from a previous interrupt; and
recording time-profiling information for each running thread.

9. (Amended) A time profiling system, comprising:
a multi-threaded program; and
a processor configured to execute the multi-threaded program, and to periodically interrupt execution of all of the threads to determine whether register data corresponding to a selected thread has changed from a previous interrupt and provide an indication of the change for the selected thread.

A3

16. (Amended) A time profiling system for time profiling multiple threads of execution corresponding to a program, comprising:
a processor configured to periodically suspend execution of the program; and

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said processor further configured to, during each program suspension, determine whether information corresponding to processor registers for each program thread indicates that the thread is running by comparing the information to stored information from a previous program suspension and record time-profiling information for each running thread.

SUB B4
17. (Amended) A computer-readable medium containing instructions for time profiling multiple threads of execution corresponding to a program, by:
interrupting execution of all of the threads;
determining whether register data corresponding to a selected thread has changed from a previous interrupt; and
providing an indication of the change for the selected thread.

SUB B4
24. (Amended) A computer-readable medium containing instructions for time profiling multiple threads of execution corresponding to a program, by:
suspending execution of the program;
determining whether information corresponding to processor registers for each thread indicates that the thread is running by comparing the information to stored information from a previous interrupt; and
recording time-profiling information for each running thread.

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